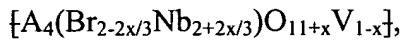


AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

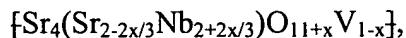
LISTING OF CLAIMS:

1. (Currently Amended) A ceramic material comprising: composed of  
[[-]] a first ceramic material with having a perovskite structure as the and defining a  
host lattice, containing the first ceramic material comprising lead, zirconium and titanium;  
and  
[[-]] a second ceramic material with having a cryolite structure.
2. (Currently Amended) The ceramic material per of claim 1, wherein in which  
the first ceramic material and the second ceramic material form comprise a mixed crystal  
phase.
3. (Currently Amended) The ceramic material per of claim 1 one of claims 1 or 2,  
in which wherein the second ceramic material comprises has the general formula



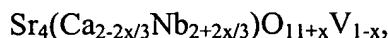
where A stands for comprises barium or strontium, and where B comprises for strontium or calcium, and where V for comprises an oxygen vacancy, and where we have for the parameter x:  $0 \leq x \leq 1$ .

4. (Currently Amended) The ceramic material per of claim 1 ~~one of claims 1 or 2~~,  
in which wherein the second ceramic material comprises has the summary formula



where V stands for comprises an oxygen vacancy, and where we have for the parameter x:  $0 \leq x \leq 1$ .

5. (Currently Amended) The ceramic material per of claim 1 ~~one of claims 1 or 2~~,  
in which wherein the second ceramic material comprises has the summary formula

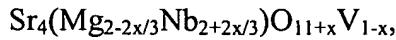


where V stands for comprises an oxygen vacancy, and where we have for the parameter x:  $0 \leq x \leq 1$ .

6. (Currently Amended) The ceramic material per of claim 1 ~~one of claims 1 or 2~~,  
in which wherein the second ceramic material comprises has the summary formula

Applicants : Adalbert Feltz, et al.  
Serial No. : Not Yet Assigned  
Filed : Herewith  
Page : 6

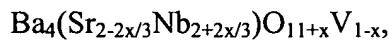
Attorney's Docket No.: 14219-119US1  
Client's Ref.: P2004,0032USN



where V stands for comprises an oxygen vacancy, and where we have for the parameter x:

$0 \leq x \leq 1$ .

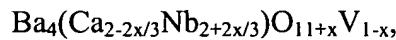
7. (Currently Amended) The ceramic material per of claim 1 one of claims 1 or 2,  
in which wherein the second ceramic material comprises has the summary formula



where V stands for comprises an oxygen vacancy, and where we have for the parameter x:

$0 \leq x \leq 1$ .

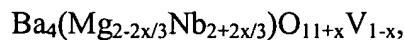
8. (Currently Amended) The ceramic material per of claim 1 one of claims 1 or 2,  
in which wherein the second ceramic material comprises has the summary formula



where V stands for comprises an oxygen vacancy, and where we have for the parameter x:

$0 \leq x \leq 1$ .

9. (Currently Amended) The ceramic material per of claim 1 one of claims 1 or 2, in which wherein the second ceramic material comprises has the summary formula



where V stands for comprises an oxygen vacancy, and where we have for the parameter x:  
 $0 \leq x \leq 1$ .

10. (Currently Amended) The ceramic material per of claim 1 one of claims 1 to 9, in which wherein the first ceramic material comprises contains a composition of summary formula  $\text{Pb}(\text{Zr}_a\text{Ti}_{1-a})\text{O}_3$ , and where  $0.5 \leq a \leq 0.6$  we have for a:  $0.5 \leq x \leq 0.6$ .

11. (Currently Amended) The ceramic material per of claim 1 one of claims 1 to 10, in which wherein the first ceramic material consists of comprises a mixed crystal phase, which is composed from the first ceramic material comprising a PZT ceramic and an added additional component of the having a perovskite lattice-type structure.

12. (Currently Amended) The ceramic material per of claim 11, wherein in which the added additional component has the summary formula comprises  $\text{KNbO}_3$ .

13. (Currently Amended) The ceramic material per of claim 11, in which wherein the added additional component comprises has the summary formula  $\text{Pb}(\text{M}^{\text{II}}_{1/3}\text{M}^{\text{V}}_{2/3})\text{O}_3$ .

~~and wherein where M<sup>II</sup> stands for comprises Mg, Zn, Co, Ni, Mn, or Cu, and where M<sup>V</sup> for comprises Nb, Ta, or Sb.~~

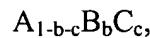
14. (Currently Amended) The ceramic material per of claim 11, in which wherein the added additional component comprises has the summary formula Pb(M<sup>II</sup><sub>1/2</sub> M<sup>VI</sup><sub>1/2</sub>)O<sub>3</sub>, and wherein where M<sup>II</sup> stands for comprises Mg, Zn, Co, Ni, Mn, or Cu, and where M<sup>VI</sup> for comprises W.

15. (Currently Amended) The ceramic material per of claim 11, in which wherein the added additional component has the summary formula comprises Pb(M<sup>III</sup><sub>1/2</sub> M<sup>V</sup><sub>1/2</sub>)O<sub>3</sub>, where and wherein M<sup>III</sup> stands for comprises Fe, Mn, Cr, or Ga, and where M<sup>V</sup> for comprises Nb, Ta, or Sb.

16. (Currently Amended) The ceramic material per of claim 11, in which wherein the added additional component has the summary formula comprises Pb(M<sup>III</sup><sub>2/3</sub> M<sup>VI</sup><sub>1/3</sub>)O<sub>3</sub>, and wherein where M<sup>III</sup> stands for comprises Fe, Mn, Cr, or Ga, and where M<sup>VI</sup> for comprises W).

17. (Currently Amended) The ceramic material per of claim 11, in which wherein the added additional component has the summary formula comprises Pb(Li<sup>I</sup><sub>1/4</sub> M<sup>V</sup><sub>3/4</sub>)O<sub>3</sub>, and wherein where M<sup>V</sup> stands for comprises Nb, Ta, or Sb.

18. (Currently Amended) A ceramic material per claim 1 to 17, in which the ceramic material has the summary formula comprising a material having a formula of



wherein 0 ≤ b ≤ 0.5 and 0 ≤ c ≤ 0.01;

wherein:

[-] A stands for the composition comprises  $Pb(Zr_aTi_{1-a})O_3$ , where and  $0.5 \leq a \leq 0.6$ ;

[-] B stands for comprises an added additional component having a of the perovskite lattice-type structure; and

[-] C stands for comprises a ceramic material of having a cryolite lattice-type structure.

19. (Currently Amended) The ceramic material per of claim 18, which additionally contains also a further comprising  $PbO$  excess of up to 3 mol.% of  $PbO$ .

20. (Currently Amended) The ceramic material per of claim 18 one of claims 1 to 19, which is substantially free of  $KNbO_3$ .

21. (Currently Amended) A piezo-actuator comprising:

[[ -]] having a monolithic stack comprised of superimposed piezoelectrical piezoelectric ceramic layers (2) and electrode layers interspersed among the piezoelectric ceramic layers; (3) lying in between;

wherein at least one of the piezoelectric ceramic layer layers comprises (2) contains a ceramic material according to claim 1 one of claims 1 to 19.

22. (Currently Amended) A method ~~for production of~~ of producing a ceramic material ~~per one of claims 1 to 20, the ceramic material comprising~~ (i) a first ceramic material having a perovskite structure and comprising a host lattice, the first ceramic material comprising lead, zirconium and titanium, and (ii) a second ceramic material having a cryolite structure, wherein the method comprises:

mixing ~~wherein~~ a precursor materials ~~material~~ of a ~~the~~ second ceramic material with a cryolite structure are mixed with a precursor materials ~~material~~ of the first ceramic material a PZT ceramic.

23. (Currently Amended) The method of claim 22 for production of a ceramic material ~~per one of claims 1 to 20, wherein a~~ the precursor material of the second ceramic material comprises a previously-prepared cryolite phase ~~is mixed with precursor materials of a PZT ceramic.~~

24. (New) The ceramic material of claim 1 which is substantially free of KNbO<sub>3</sub>.

25. (Currently Amended) A piezo-actuator comprising:

a stack comprised of piezoelectric ceramic layers and electrode layers interspersed among the piezoelectric ceramic layers;

wherein at least one of the piezoelectric ceramic layers comprises a ceramic according to claim 18.